### Select Problem Indicators by Geography

This section presents data that are available at a sub-state level in order to determine geographic areas that experience higher rates of substance use-related problems. Several issues should be considered in this type of analysis.

First, the size of the population of the county and the absolute number of substance use-related events should be taken into account. A county might have a high rate of the problem compared to other counties but the county's population and the number of people experiencing the problem may be relatively small. An intervention may not be able to achieve sizable reductions in an already small audience. Population estimates in 2005 for each county are provided in Appendix C and demographic information about the population of Arizona is provided in Appendix D.

Secondly, looking at problems by county may mask high rates of problems in smaller geographic areas. For example, Maricopa County is so big that one rate to describe all of its constituent communities may understate a particular municipality's problems.

Finally, the relationship between problem prevalence and intervention need should be considered. A motor vehicle crash may not occur in the same place that the person became intoxicated or learned the behaviors that resulted in the crash. This is even more salient for prevention interventions where antecedents to the actual problem may have developed years before the problem event and in a different location.

In addition to this printed Substance Abuse Epidemiology Report, data for 14 demographic elements, 10 risk factor elements, and 8 consumption indicators are examined at a sub-county level known as a Community Health Analysis Area (CHAA). The CHAA is a geographic segment used by the Arizona Department of Health Services' Bureau of Public Health Statistics for public health surveillance. The community health analysis area is large enough to provide a population size meaningful for statistical analysis but small enough to capture geographic variations and maintain a sense of community or neighborhood. Data for the 126 CHAAs in Arizona are located in Appendix F.

# **Consumption by Geography.**

Tables 4.90 through 4.95 present county level data from the *Arizona Youth Survey* on past 30-day alcohol use, past two-week binge alcohol use, past 30-day cigarette use, and past 30-day illicit drug use, including methamphetamine-specific information, for 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> grade students.

Past 30-day alcohol use seems to be especially problematic for youth in rural areas, as higher percentages of youth in Gila, Greenlee, Mohave, Santa Cruz, and Yavapai reported such use. In addition, La Paz and Pinal counties also have high percentages of youth who reported underage drinking.

Table 4.90. Numbers and Percentages of 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> Grade Students Who Reported Drinking Alcohol During the Past 30 Days, Statewide and by County,

Arizona, 2006

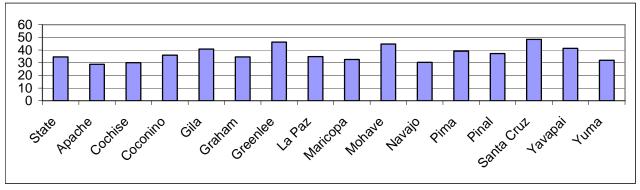
Arizona, 2000	8 <sup>th</sup> Grad	lo.	10 <sup>th</sup> Grad		12 <sup>th</sup> Grad		All Gra	
	Grau	i <del>e</del>	Grau	le .	Grau	e	Combi	nea
County	%	N	%	N	%	N	%	N
State	24.10	5,914	39.20	7,284	47.00	6,330	34.50	19,528
Apache	17.90	61	30.70	80	43.20	96	28.80	237
Cochise	21.00	163	39.70	195	42.90	78	30.00	436
Coconino	26.70	120	37.90	120	48.10	137	35.90	377
Gila	34.30	116	48.10	126	42.10	75	40.70	317
Graham	25.70	74	38.20	102	40.20	115	34.60	291
Greenlee	37.60	32	48.10	39	55.40	36	46.30	107
La Paz	28.50	37	37.10	56	42.60	26	34.80	119
Maricopa	23.00	3,618	36.50	3,884	45.90	3,576	32.50	11,078
Mohave	34.60	149	46.20	365	50.70	266	44.70	780
Navajo	26.60	130	33.70	161	30.40	106	30.20	397
Pima	24.20	553	43.30	1,091	49.80	1,097	39.10	2,741
Pinal	30.30	300	44.10	193	51.10	136	37.20	629
Santa Cruz	28.00	89	49.70	267	61.20	276	48.40	632
Yavapai	24.20	137	49.00	304	55.00	194	41.30	635
Yuma	24.50	335	41.50	301	43.10	116	31.90	752

Note. Percentages in bold indicate the five counties by grade reporting the highest percentage of past 30-day alcohol use.

Source: Arizona Youth Survey: County Reports, 2006. Arizona Criminal Justice Commission.

Available at: http://azcjc.gov/pubs/home/2006\_AYS\_County\_Reports.pdf

*Figure 4.49.* Percentages of 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> Grade Students Who Reported Drinking Alcohol During the Past 30 Days, Statewide and by County, Arizona, 2006.



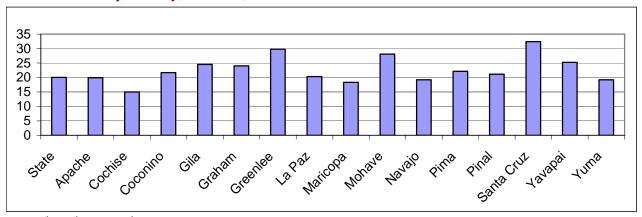
Binge drinking may be indicative of youth problem drinking that could lead to dependence in youth or later in adulthood. Counties with the highest percentages (at or above 25%) of youth who reported binge drinking within the last two weeks were: Gila, Greenlee, Mohave, Santa Cruz and Yavapai, which were the same five counties with the highest percentages of youth who reported past 30-day alcohol use. In addition, youth in Apache, Graham and Yuma counties reported high percentages of youth who engaged in this risky behavior. Interestingly, neither of these three counties had the highest percentage of youth who reported past 30-day alcohol use, which may indicate that prevention efforts targeted at these counties focus on the harmful effects of binge drinking.

Table 4.91. Numbers and Percentages of 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> Grade Students Who Reported Binge Drinking in Past 2 Weeks, Statewide and by County, Arizona, 2006

	8 <sup>th</sup> Grade			10 <sup>th</sup> Grade			All Grades Combined		
County	%	N	%	e N	Grad %	e N	%	N	
State	13.00	3,082	22.00	4,046	28.00	3,744	20.00	10,872	
Apache	13.00	43	18.90	45	31.50	70	19.90	158	
Cochise	10.40	78	19.10	92	23.20	42	15.00	212	
Coconino	17.40	75	24.70	78	25.00	70	21.70	223	
Gila	19.30	64	31.90	83	23.60	42	24.50	189	
Graham	18.80	55	26.90	71	26.60	75	24.00	201	
Greenlee	25.30	20	34.10	28	29.90	20	29.80	68	
La Paz	15.70	19	22.70	34	23.70	14	20.30	67	
Maricopa	12.30	1,807	20.40	2,108	26.80	2,061	18.30	5,976	
Mohave	21.30	88	28.50	219	33.10	170	28.10	477	
Navajo	15.70	72	22.40	108	19.40	68	19.20	248	
Pima	14.00	302	22.10	539	30.00	649	22.10	1,490	
Pinal	16.90	161	24.80	108	30.20	80	21.10	349	
Santa Cruz	22.70	71	30.90	164	40.90	184	32.40	419	
Yavapai	11.90	63	31.20	194	34.50	124	25.20	381	
Yuma	13.10	164	26.60	175	30.70	75	19.20	414	

Note. Percentages in bold indicate the five counties by grade reporting the highest percentage of past 2-week binge drinking.

*Figure 4.50.* Percentage of Students Who Reported Binge Drinking in Past 2 Weeks, Statewide and by County, Arizona, 2006.



Note. 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> grade students combined.

Table 4.92. Numbers and Percentages of 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> Grade Students Who Smoked Cigarettes During the Past 30 Days, Statewide and by County, Arizona, 2006

2000	8 <sup>th</sup> Grad	e	10 <sup>th</sup> Grad		12 <sup>th</sup> Grade		All Grades Combined		
County	%	N	%	N	%	N	%	N	
State	10.00	2,553	17.00	3,176	22.00	2,956	15.00	8,685	
Apache	23.40	79	27.20	68	34.20	77	27.60	224	
Cochise	10.20	79	19.70	97	23.40	43	15.10	219	
Coconino	14.90	66	23.50	74	26.70	76	20.70	216	
Gila	15.60	52	22.60	59	20.10	36	19.00	147	
Graham	9.00	27	14.80	40	21.30	61	15.00	128	
Greenlee	19.30	16	29.80	25	32.80	22	26.90	63	
La Paz	8.70	11	19.90	30	14.30	9	14.70	50	
Maricopa	9.30	1,444	15.30	1,620	21.30	1,665	13.90	4,729	
Mohave	13.10	57	19.90	159	20.60	107	18.40	323	
Navajo	20.40	100	20.40	99	18.30	64	19.80	263	
Pima	11.50	263	16.40	411	20.50	452	16.10	1,126	
Pinal	14.60	145	18.60	82	23.10	62	17.00	289	
Santa Cruz	9.10	29	26.10	142	31.20	142	23.70	313	
Yavapai	9.40	52	19.80	123	24.40	88	17.10	263	
Yuma	9.90	133	20.70	147	19.80	52	14.40	332	

Note. Percentages in bold indicate the five counties by grade reporting the highest percentage of past 30-day cigarette smoking.

Figure 4.51. Percentage of Students Who Smoked Cigarettes During the Past 30 Days, Statewide and by County, Arizona, 2006.

Note. 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> grade students combined.

Source: Arizona Youth Survey: County Reports, 2006. Arizona Criminal Justice Commission.

Counties with especially high percentages of youth who reported using methamphetamine in the past 30-days were Apache, Graham, La Paz, Mohave and Navajo. High percentages of youth in Cochise, Pinal and Santa Cruz counties also reported methamphetamine use during the last 30 days. Anti-methamphetamine efforts should be targeted at youth in Graham County as the highest percentage of youth who reported methamphetamine use were those living in this county. Further, Graham County did not have the highest percentage of youth who reported cigarette smoking, alcohol use or binge drinking, indicating that the primary substance use among these youth may be methamphetamine. However, these data should be interpreted with caution, а higher percentage of youth as reporting methamphetamine use in Graham County does not translate into larger numbers of youth using methamphetamine than those using tobacco or alcohol. Further, the absolute number of youth who reported using methamphetamine is lower in Graham County than in other counties.

<u>Finding</u>: Over 5% of 12<sup>th</sup> graders in Graham and La Paz counties reported methamphetamine use within the last 30 days, which translates to the use of methamphetamine within the last 30 days by more than 1 in 20 12<sup>th</sup> graders in these counties.

Table 4.93. Percentage of Arizona Students Who Reported Using
Methamphetamine in the Past 30-days, Statewide and by County, Arizona, 2006

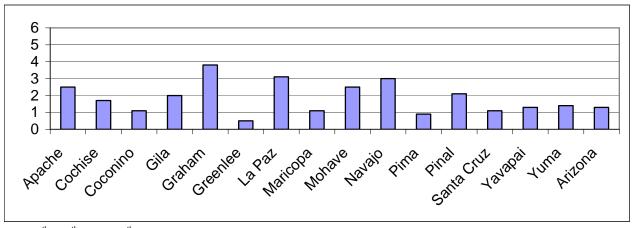
County	%
Apache	2.50
Cochise	1.70
Coconino	1.10
Gila	2.00
Graham	3.80
Greenlee	0.50
La Paz	3.10
Maricopa	1.10
Mohave	2.50
Navajo	3.00
Pima	0.90
Pinal	2.10
Santa Cruz	1.10
Yavapai	1.30
Yuma	1.40
State	1.30

Note. Percentages in bold indicate the five counties reporting the highest percentage of past 30-day youth methamphetamine use.

Students in 8<sup>th</sup>, 10<sup>th</sup> and 12<sup>th</sup> grades combined.

Source: Arizona Youth Survey: State Report, 2006. Arizona Criminal Justice Commission.

*Figure 4.52.* Percentage of Arizona Students Who Reported Using Methamphetamine in the Past 30-days, Statewide and by County, Arizona, 2006.



Note. 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> grade students combined.

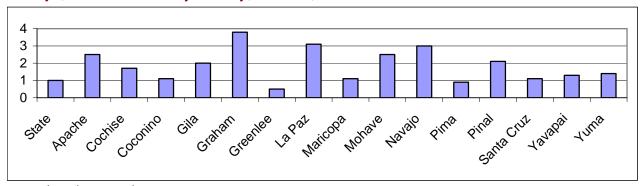
Table 4.94. Numbers and Percentages of 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> Grade Students Who Used Methamphetamine During the Past 30 Days, Statewide and by County,

Arizona, 2006

Alizona, zot	8 <sup>th</sup> Grad	8 <sup>th</sup> Grade		10 <sup>th</sup> Grade		e	All Grades Combined	
County	%	N	%	N	%	N	%	N
State	1.00	223	2.00	292	1.00	182	1.00	697
Apache	2.20	7	2.90	7	2.80	6	2.50	20
Cochise	0.60	4	3.30	15	1.70	3	1.70	22
Coconino	1.00	4	1.40	4	1.10	3	1.10	11
Gila	1.20	4	2.90	7	2.30	4	2.00	15
Graham	1.80	5	4.50	11	5.10	13	3.80	29
Greenlee	0.00	0	1.30	1	0.00	0	0.50	1
La Paz	4.80	6	0.70	1	5.20	3	3.10	10
Maricopa	0.90	134	1.30	130	1.30	95	1.10	359
Mohave	0.80	3	3.60	26	2.40	12	2.50	41
Navajo	2.60	12	3.70	16	2.50	8	3.00	36
Pima	0.60	13	1.20	28	0.80	16	0.90	57
Pinal	1.10	10	4.60	19	1.60	4	2.10	33
Santa Cruz	1.30	4	0.80	4	1.40	6	1.10	14
Yavapai	0.80	4	2.00	11	0.90	3	1.30	18
Yuma	1.00	13	1.70	12	2.30	6	1.40	31

Note. Percentages in bold indicate the five counties by grade reporting the highest percentage of past 30-day methamphetamine use.

Figure 4.53. Percentages of Students Who Used Methamphetamine During the Past 30 Days, Statewide and by County, Arizona, 2006.



Note. 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> grade students combined. Source: *Arizona Youth Survey: County Reports, 2006.* Arizona Criminal Justice Commission.

Table 4.95. Numbers and Percentages of 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> Grade Students Who Used Any Drug During the Past 30 Days, Statewide and by County, Arizona, 2006

OSEG Ally D	8 <sup>th</sup>		10 <sup>th</sup>		12 <sup>th</sup>		All Grades		
	Grad	•	Grad		Grad	•	Combi		
County	%	N	%	N	%	N	%	N	
State	20.00	3,917	26.00	4,049	26.00	3,115	23.00	11,081	
Apache	30.10	90	32.70	74	36.20	76	32.70	240	
Cochise	16.20	95	27.30	111	23.10	36	21.00	242	
Coconino	24.30	90	28.70	74	29.20	73	27.00	237	
Gila	20.30	60	32.40	72	23.90	37	25.10	169	
Graham	18.30	42	33.70	70	33.10	78	28.20	190	
Greenlee	20.60	14	26.60	17	32.20	19	26.20	50	
La Paz	22.90	25	23.30	28	24.50	13	23.40	66	
Maricopa	18.30	2,330	23.40	2,119	26.10	1,780	21.80	6,229	
Mohave	23.30	78	31.00	200	29.70	133	28.80	411	
Navajo	28.20	118	31.20	124	27.80	77	29.20	319	
Pima	22.80	421	28.70	633	26.50	514	26.20	1,568	
Pinal	28.10	215	34.80	127	29.30	68	30.10	410	
Santa Cruz	21.00	60	24.80	115	21.00	86	22.50	261	
Yavapai	18.60	86	31.30	163	27.10	82	25.70	331	
Yuma Note Percentage	18.10	193	19.20	122	18.50	43	18.50	358	

Note. Percentages in bold indicate the five counties by grade reporting the highest percentage of past 30-day any drug use.

Statewide and by County, Arizona, 2006. 40 30 20 10

Figure 4.54. Percentages of Students Who Used Any Drug During the Past 30 Days,

Note. 8<sup>th</sup>, 10<sup>th</sup>, and 12<sup>th</sup> grade students combined.

Source: Arizona Youth Survey: County Reports, 2006. Arizona Criminal Justice Commission.

Overall substance use appears to be most problematic in Greenlee, Mohave and Santa Cruz counties as these areas they were each one of the top five counties with the highest percentages of students who reported substance use for three of the four indicators: past 30-day alcohol use; past 30-day cigarette smoking; past 30-day use of any drug; and past 2-week binge drinking. In addition, 8th grade students in Gila, Greenlee and Mohave counties had the highest percentages of students who reported substance use for three of the four indicators. For 10<sup>th</sup> grade students, problematic geographic areas included Gila, Greenlee, Santa Cruz and Yavapai counties. 12th grade appears to be a more dangerous time in the lives of youth as Apache, Greenlee, Mohave, Santa Cruz and Yavapai counties each had the highest percentages of 12<sup>th</sup> grade students who reported substance use for three out of the four indicators.

Table 4.96. Number of Times a County Had One of the Five Highest Percentages of Use for Past 30-Day Alcohol, Past 30-Day Cigarette, Past 30-Day Any Drug, and Past 2-Week Binge Drinking, by Grade

	8 <sup>th</sup> Grade	10 <sup>th</sup> Grade	12 <sup>th</sup> Grade	All Grades Combined
Apache	2	2	3	2
Cochise	0	0	0	0
Coconino	2	1	1	1
Gila	3	4	0	2
Graham	1	1	1	1
Greenlee	3	3	3	3
La Paz	1	0	0	0
Maricopa	0	0	0	0
Mohave	3	2	3	3
Navajo	2	0	0	2
Pima	0	0	0	0
Pinal	2	1	2	1
Santa Cruz	1	3	3	3
Yavapai	0	3	3	2
Yuma	0	0	1	0

Note. Numbers in bold indicate that the county had one of the five highest percentages of youth (by grade) who reported 3 or 4 times.

Source: Arizona Youth Survey: County Reports, 2006. Arizona Criminal Justice Commission.

Table 4.97. Number of Times a County Had One of the Five Highest Percentages of Use for Past 30-Day Alcohol and Past 2-Week Binge Drinking, by Grade

	8 <sup>th</sup> Grade	10 <sup>th</sup> Grade	12 <sup>th</sup> Grade	All Grades Combined
Apache	0	0	1	0
Cochise	0	0	0	0
Coconino	0	0	0	0
Gila	2	2	0	2
Graham	1	0	0	0
Greenlee	2	2	1	2
La Paz	1	0	0	0
Maricopa	0	0	0	0
Mohave	2	2	2	2
Navajo	0	0	0	0
Pima	0	0	0	0
Pinal	1	0	1	0
Santa Cruz	1	2	2	2
Yavapai	0	2	2	2
Yuma	0	0	1	0

Table 4.98. Number of Times a County Had One of the Five Highest Percentages

of Past 30-Day Any Drug Use, by Grade

<u> </u>	8 <sup>th</sup> Grade	10 <sup>th</sup> Grade	12 <sup>th</sup> Grade	All Grades Combined
Apache	1	1	1	1
Cochise	0	0	0	0
Coconino	1	0	0	0
Gila	0	1	0	0
Graham	0	1	1	1
Greenlee	0	0	1	0
La Paz	0	0	0	0
Maricopa	0	0	0	0
Mohave	1	0	1	1
Navajo	1	0	0	1
Pima	0	0	0	0
Pinal	1	1	1	1
Santa Cruz	0	0	0	0
Yavapai	0	1	0	0
Yuma	0	0	0	0

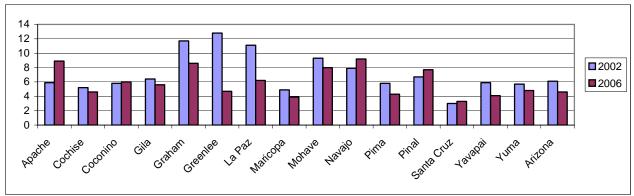
Table 4.99. Methamphetamine Laboratory Seizures, Statewide and by County	,
Arizona, 2000 – 2006	

County	2000	2001	2002	2003	2004	2005	<b>2006</b> <sup>2</sup>	Total
Apache	2	0	0	0	0	0	0	2
Cochise	0	2	2	4	0	0	1	9
Coconino	2	0	0	0	1	0	0	3
Gila	0	0	0	0	0	1	0	1
Graham	0	0	2	0	0	0	0	2
Greenlee	0	0	0	0	0	0	0	0
La Paz	0	0	0	0	0	0	0	0
Maricopa <sup>1</sup>	284	201	146	85	71	32	2	821
Mohave	6	6	7	10	4	3	0	36
Navajo	0	0	1	0	0	0	0	1
Pima <sup>1</sup>	15	19	12	9	5	10	1	71
Pinal	3	5	1	6	6	0	0	21
Santa Cruz	0	0	0	0	0	0	0	0
Yavapai	5	2	4	0	0	0	0	11
Yuma	2	0	1	1	0	0	0	4
Total	319	235	176	115	87	46	4	982

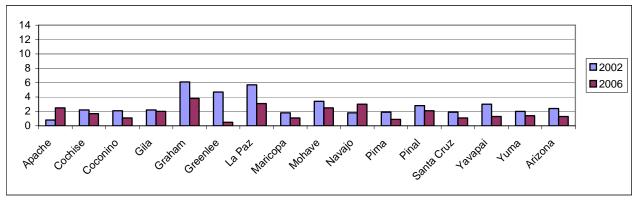
<sup>&</sup>lt;sup>1</sup> Information for Maricopa and Pima counties include data obtained from the El Paso Intelligence Center National Clandestine Laboratory Seizure System. <sup>2</sup> 2006 data reflects lab seizures to date and is therefore incomplete.

Source: Office of National Drug Control Policy, Arizona High Intensity Drug Trafficking Area Intelligence Division, 2006.

Figure 4.55. Trends in Percentages of 8<sup>th</sup>, 10<sup>th</sup> and 12<sup>th</sup> Grade Youth Combined who Reported Past 30-Day Methamphetamine Use by County, 2002 & 2006.



*Figure 4.56.* Trends in Percentages of 8<sup>th</sup>, 10<sup>th</sup> and 12<sup>th</sup> Grade Youth Combined who Reported Lifetime Methamphetamine Use by County, 2002 & 2006.



### Hospital Discharges and Emergency Department Visits by Geography.

For this analysis, more important than the absolute number of hospital discharges and Emergency Department visits are the rates of these occurrences, as this information helps to determine whether any particular county is disproportionately affected by substance use.

Table 4.100. Hospital Discharges by Disorder and County, Arizona, 2005

	Drug				
	Alcohol Abuse	Dependence/Abuse/ Psychoses	Fetus/Noxious Influences		
	N	N	N		
Apache	290	66	8		
Cochise	415	335	18		
Coconino	539	268	19		
Gila	429	238	15		
Graham	139	121	6		
Greenlee	27	19			
La Paz	131	63	19		
Maricopa	12,039	12,788	1,027		
Mohave	822	432	24		
Navajo	605	231	19		
Pima	5,169	6,264	167		
Pinal	1,175	1,093	120		
Santa Cruz	133	90	4		
Yavapai	661	409	25		
Yuma	571	378	26		
Unknown	263	237	7		

<sup>--</sup> No data provided for this county.

Source: Hospital Discharge Database, 2005. Arizona Department of Health Services.

Figure 4.57. Hospital Discharges by Disorder and County, Arizona, 2005.

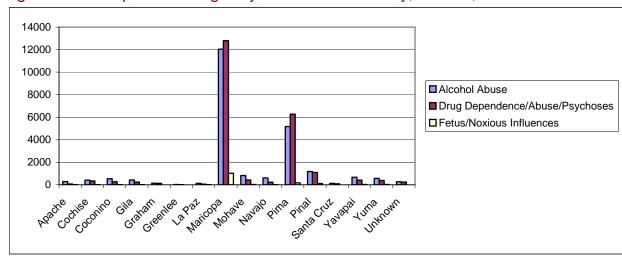


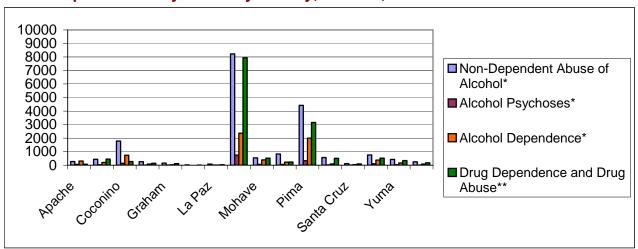
Table 4.101. Emergency Department Visits for Drug or Alcohol Abuse/Dependence/Psychosis by County, Arizona, 2005

	Non- Dependent Abuse of Alcohol <sup>*</sup>	Alcohol Psychoses <sup>*</sup>	Alcohol Dependence <sup>*</sup>	Drug Dependence and Drug Abuse <sup>**</sup>
Apache	266	64	311	72
Cochise	438	30	197	450
Coconino	1,784	137	731	270
Gila	258	15	77	146
Graham	155	15	34	119
Greenlee	19	4	4	9
La Paz	86	6	17	32
Maricopa	8,222	748	2,365	7,949
Mohave	541	60	395	523
Navajo	823	56	219	231
Pima	4,419	326	1,999	3,155
Pinal	569	26	100	512
Santa Cruz	116	11	49	98
Yavapai	762	103	376	518
Yuma	423	41	163	346
Unknown	252	17	80	172

Note. Numbers in bold indicate the type of alcohol or drug abuse/dependence/psychoses most often requiring treatment in an Emergency Department by county.

Source: Hospital Discharge Database, 2005. Arizona Department of Health Services.

Figure 4.58. Emergency Department Visits for Drug or Alcohol Abuse/Dependence/Psychosis by County, Arizona, 2005



All mentions

<sup>\*</sup> All mentions

<sup>\*\*</sup> First-listed diagnosis

<sup>\*\*</sup> First-listed diagnosis

Table 4.102 indicates that the five counties with the highest rates (per 10,000 people) of hospital discharges for drug abuse and dependence are Pima, Gila, Pinal, Maricopa, and Mohave counties (in descending order). For the same indicator, Cochise County has the highest rate of Emergency Department visits followed by Graham, Pima, Mohave and Gila counties (respectively).

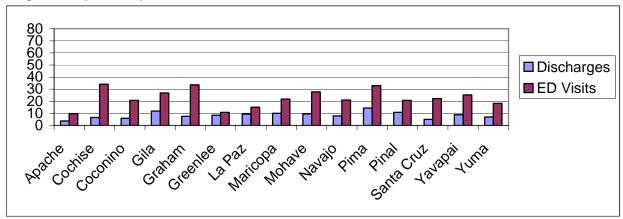
Table 4.102. Hospital Discharges and Emergency Department (ED) Visits and Rates per 10,000 Population with Mentions of Drug Abuse and Dependence as First-Listed Diagnosis by County, Arizona, 2005

	Dischar	ges	ED Visits		
	N	Rate	N	Rate	
Apache	27	3.7	72	9.8	
Cochise	87	6.6	450	34.1	
Coconino	77	5.9	270	20.7	
Gila	64	11.9	146	26.8	
Graham	27	7.6	119	33.6	
Greenlee	7	8.4	9	10.8	
La Paz	20	9.4	32	15.1	
Maricopa	3,694	10.1	7,949	21.8	
Mohave	179	9.5	523	27.8	
Navajo	87	7.9	231	21	
Pima	1,375	14.4	3,155	32.9	
Pinal	268	10.9	512	20.8	
Santa Cruz	22	5	98	22.2	
Yavapai	183	8.9	518	25.3	
Yuma	133	7	346	18.3	
Unknown	73		172		

Note. Rates in bold indicate the five counties with the highest rates of hospital discharges and Emergency Department visits for drug abuse and dependence as the first-listed diagnosis.

<sup>--</sup> indicates that rates cannot be calculated when county is unknown.

Figure 4.59. Hospital Discharge and Emergency Department (ED) Visit Rates per 10,000 Population with Mentions of Drug Abuse and Dependence as First-Listed Diagnosis by County, Arizona, 2005.



As the data in Table 4.103 indicate, the counties with the highest rates of Emergency Department visits for alcoholic psychosis in 2005 were Apache, Coconino, Greenlee, Yavapai and Navajo. The counties with the highest rates were Coconino, Apache, Navajo, Mohave and Pima. Finally, Coconino, Navajo, Graham, Apache and Gila counties had the highest rates of Emergency Department visits for the non-dependent abuse of alcohol. Three counties had one of the top five rates for all three indicators of alcohol abuse: Apache, Coconino and Navajo, indicating that these counties are especially in need of alcohol intervention efforts. Most notable is the high rate (almost 75 of every 10,000 individuals) of Emergency Department visits for the non-dependent abuse of alcohol in Coconino County.

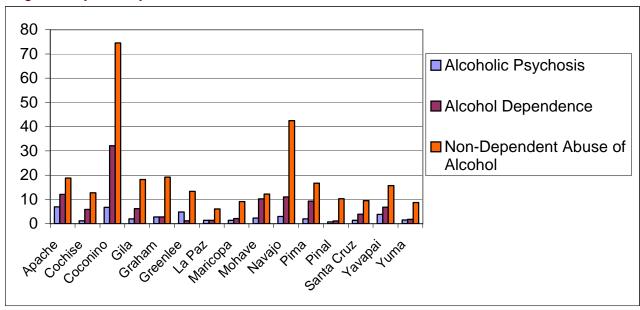
Table 4.103. Emergency Department (ED) Visits and Rates (per 10,000 Population) for Selected Diagnoses Related to Alcohol Abuse and Dependence as First-Listed Diagnosis by County, Arizona, 2005

	Alcoholic Psychosis		Alcohol Dependence		Non-Dependent Abuse of Alcohol	
	N	Rate	N	Rate	N	Rate
Apache	51	6.90	89	12.10	139	18.80
Cochise	16	1.20	78	5.90	168	12.70
Coconino	88	6.70	419	32.10	973	74.50
Gila	11	2.00	34	6.20	99	18.20
Graham	10	2.80	10	2.80	68	19.20
Greenlee	4	4.80	1	1.20	11	13.30
La Paz	3	1.40	3	1.40	13	6.10
Maricopa	521	1.40	777	2.10	3,311	9.10
Mohave	44	2.30	191	10.20	230	12.20
Navajo	33	3.00	121	11.00	467	42.50
Pima	194	2.00	886	9.30	1,603	16.70
Pinal	18	0.70	27	1.10	253	10.30
Santa Cruz	6	1.40	17	3.90	42	9.50
Yavapai	77	3.80	139	6.80	322	15.70
Yuma	28	1.50	34	1.80	164	8.70
Unknown	12		36		120	

Note. Rates in bold indicate the five counties with the highest rates of Emergency

<sup>--</sup> indicates that rates cannot be calculated when county is unknown.

Figure 4.60. Emergency Department (ED) Visit Rates (per 10,000 Population) for Selected Diagnoses Related to Alcohol Abuse and Dependence as First-Listed Diagnosis by County, Arizona, 2005.



# Alcohol-Related Motor Vehicle Crashes by Geography.

Table 4.104. Alcohol–Related Motor Vehicle Crashes\* by County in which the Crash Occurred, Arizona, 2005

	Incident Counts			Person Counts		
			Injury	Property		_
	Total	<b>Fatalities</b>	Accidents	Damage	Killed	Injured
Apache	54	7	28	19	8	68
Cochise	88	5	39	44	6	60
Coconino	224	8	105	111	9	185
Gila	65	4	30	31	4	51
Graham	26	0	10	16	0	13
Greenlee	8	1	3	4	1	6
La Paz	27	7	11	9	8	24
Maricopa	5,149	103	2,244	2,802	111	3,856
Mohave	267	12	122	133	14	207
Navajo	79	6	38	35	6	78
Pima	980	22	473	485	23	741
Pinal	236	19	93	124	21	182
Santa Cruz	44	3	23	18	3	29
Yavapai	250	10	108	132	12	165
Yuma	188	6	98	84	7	131
Total	7,685	213	3,425	4,047	233	5,796

Excludes motorcycle, motorscooter, and moped drivers.

Source: Arizona Department of Transportation, unpublished data, 2005.

# Drug and Alcohol-Related Arrests by Geography.

Table 4.105. Drug and Alcohol-Related Arrests by County, Arizona, 2005

	DUI	Drug Possession	Drug Sale/ Manufacturing
	N	N	N
Apache <sup>1</sup>	96	96	24
Cochise <sup>2</sup>	671	746	93
Coconino <sup>3</sup>	1,249	1,079	117
Gila⁴	196	145	52
Graham <sup>5</sup>	65	45	8
Greenlee <sup>6</sup>	31	69	4
La Paz	189	207	30
Maricopa <sup>7</sup>	23,897	15,099	1,867
Mohave <sup>8</sup>	838	1,090	146
Navajo <sup>9</sup>	599	296	69
Pima	4,574	10,262	1,203
Pinal <sup>10</sup>	987	904	130
Santa Cruz <sup>11</sup>	161	122	3
Yavapai <sup>12</sup>	1,373	1,083	267
Yuma <sup>13</sup>	449	1,005	41

<sup>&</sup>lt;sup>1</sup> Apache County Sheriff's Office did not provide complete data.

Source: Crime in Arizona, 2005. Arizona Department of Public Safety.

<sup>&</sup>lt;sup>2</sup> Tombstone Marshal's Office did not provide complete data.

<sup>&</sup>lt;sup>3</sup> Williams Police Department did not provide complete data.

<sup>&</sup>lt;sup>4</sup> Hayden and Miami police departments did not provide complete data.

<sup>&</sup>lt;sup>5</sup> Graham County Sheriff's Office, Pima Police Department, and Safford Police Department did not provide complete data.

<sup>&</sup>lt;sup>6</sup> Clifton Police department did not provide complete data.

Avondale Police Department and AZ State Capitol Police Department did not provide complete data.

<sup>&</sup>lt;sup>8</sup> Colorado City Marshal's Office did not provide complete data.

<sup>&</sup>lt;sup>9</sup> Navajo County Sheriff's Office and Pinetop-Lakeside Police Department did not provide complete data.

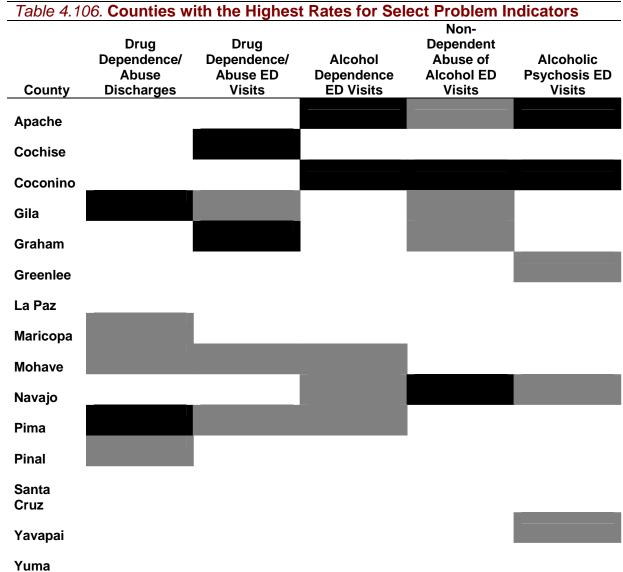
<sup>&</sup>lt;sup>10</sup> Superior Police Department did not provide complete data.

<sup>&</sup>lt;sup>11</sup> Santa Cruz County Sheriff's Office and Patagonia Marshall's Office did not provide complete data.

<sup>&</sup>lt;sup>12</sup> Jerome Police Department and Sedona Police Department did not provide complete data.

<sup>&</sup>lt;sup>13</sup> AZ Western College Police Department and San Luis Police Department did not provide complete data.

**Finding:** Overall, Coconino County had the highest or second-highest rate for three of the five indicators: drug dependence/abuse hospital discharges; drug dependence/abuse Emergency Department visits; alcohol dependence Emergency Department visits; non-dependent abuse of alcohol Emergency Department visits; or alcoholic psychosis Emergency Department visits. Further, Apache County had the highest or second-highest rate on two of the five indicators.



Note. Black cells indicate either highest or 2<sup>nd</sup>-highest rate; gray cells indicate 3<sup>rd</sup>, 4<sup>th</sup>, or 5<sup>th</sup>-highest rate.

<u>Problem Indicators by Geography Summary</u>: Higher percentages of youth in Graham and La Paz counties reported methamphetamine use within the 30 days preceding the survey than youth in other counties, with more than 1 in 20 12<sup>th</sup> graders reporting use of the substance in these counties. Overall, rural counties appear to experience more a greater proportion of problems with substance abuse than do metropolitan counties. Three rural counties had one of the top five rates for all three indicators of alcohol abuse: Apache, Coconino and Navajo, indicating that these counties are especially in need of alcohol intervention efforts.